

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P483758

Luminaire Tested: **IFLD-L-SA7A-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483758
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

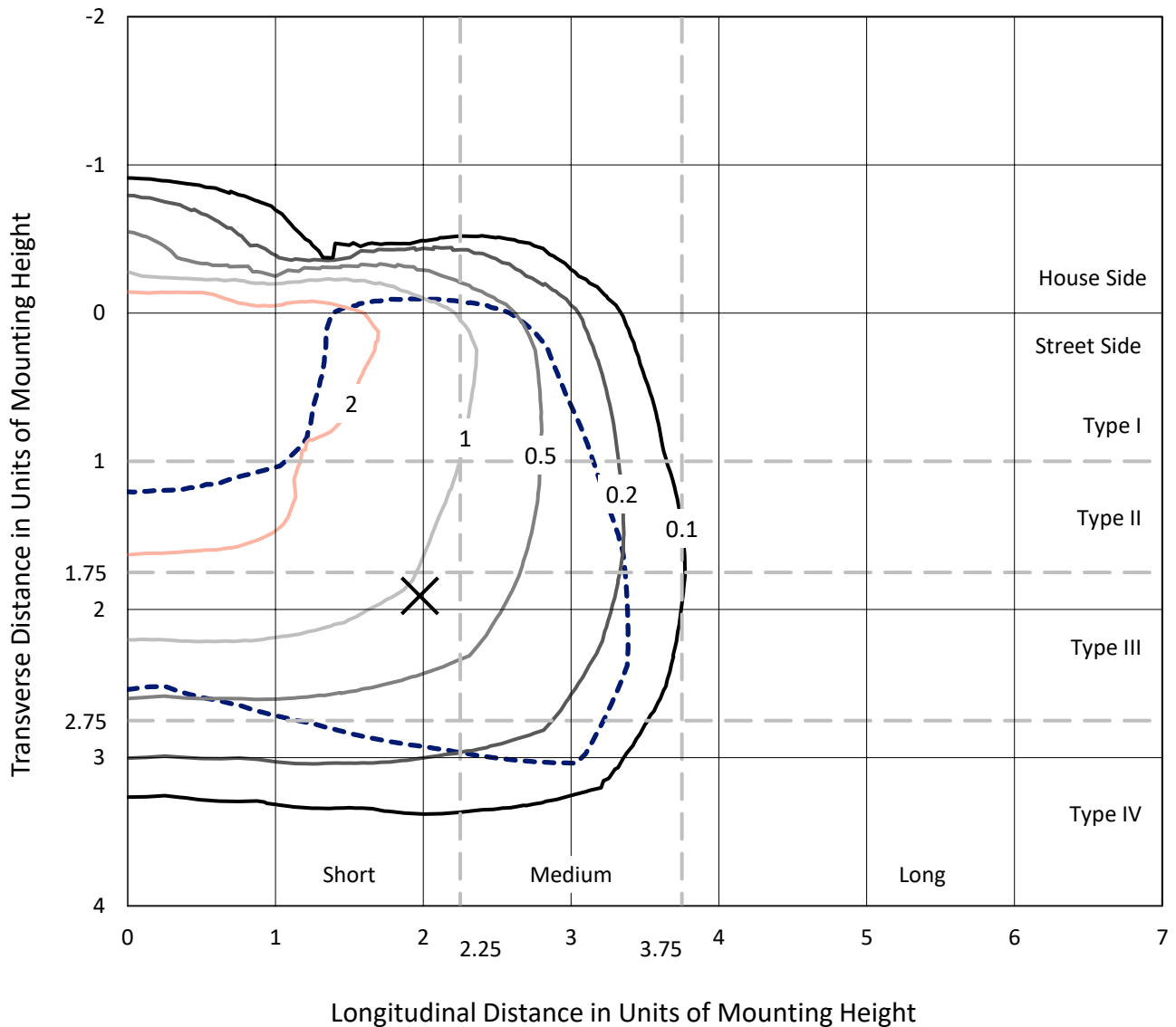
Lumens per Lamp: N/A
Luminaire Lumens: 16976.9 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

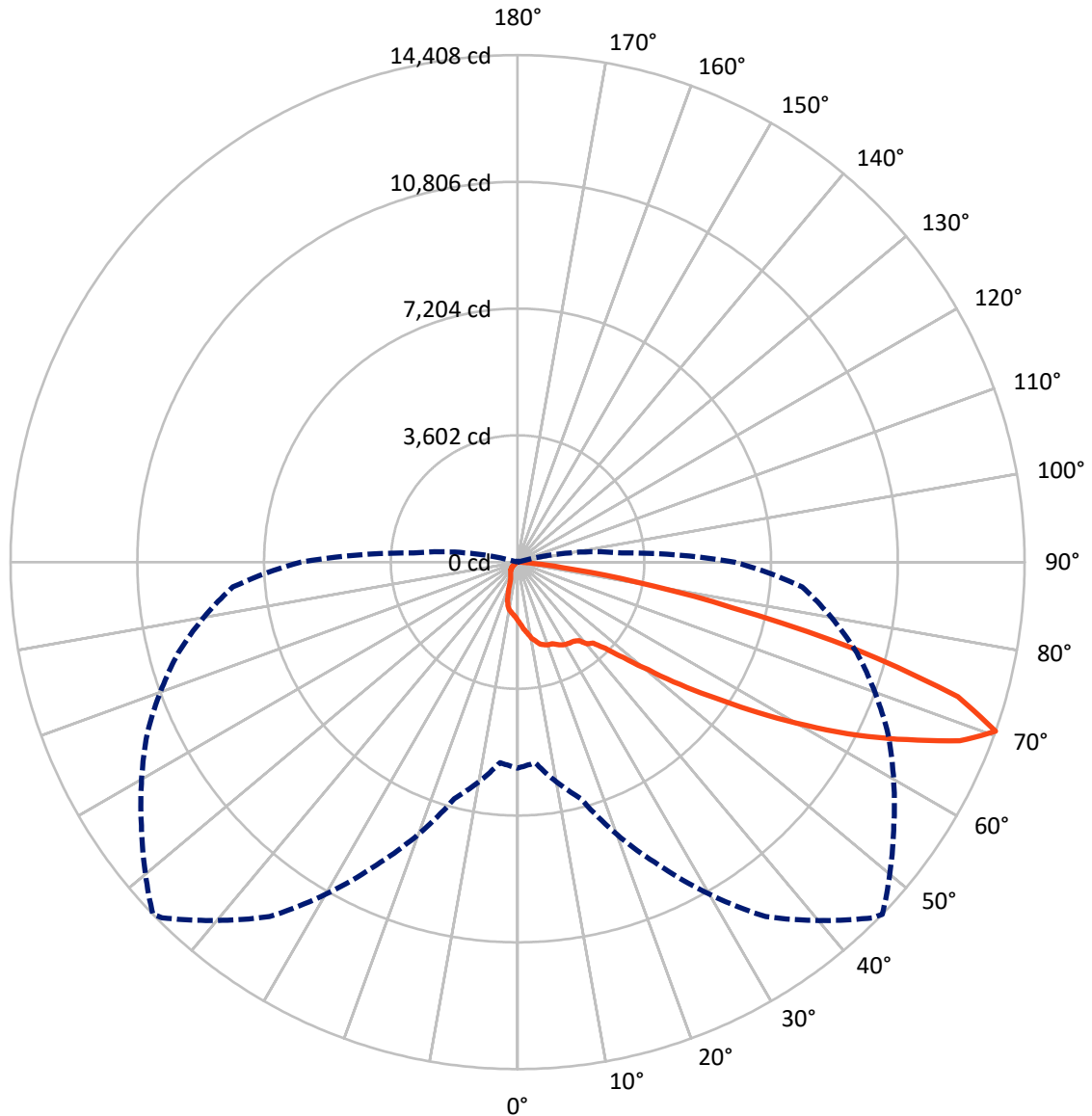
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1689.2	0.0	1689.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15287.6	0.0	15287.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	16976.9	0.0	16976.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	1.0
10°-20°	501.8	3.0
20°-30°	803.8	4.7
30°-40°	1147.4	6.8
40°-50°	1981.2	11.7
50°-60°	3793.2	22.3
60°-70°	5617.2	33.1
70°-80°	2782.1	16.4
80°-90°	183.8	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16976.9	100.0
0°-180°	16976.9	100.0

Coefficient of Utilization



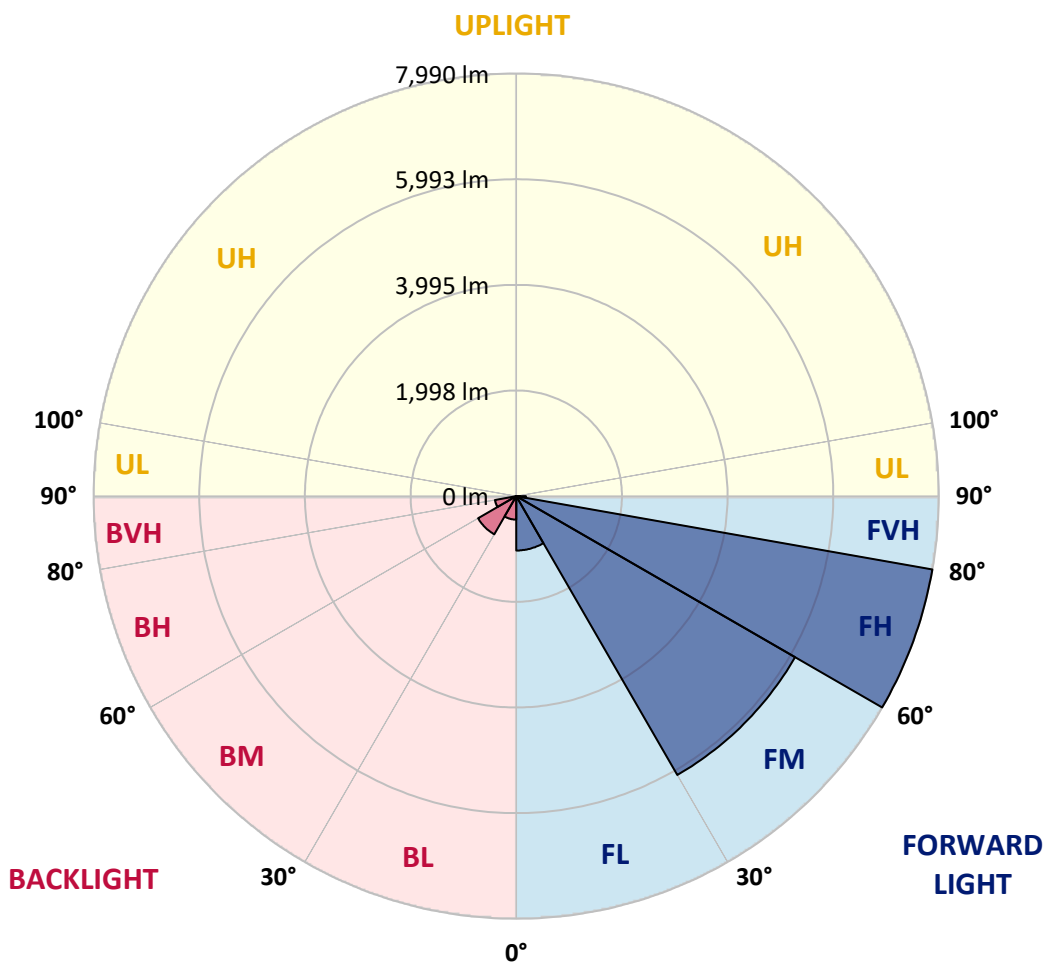
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.1	6.1			
FM (30°-60°)	6087.9	35.9			
FH (60°-80°)	7990.2	47.1			G4/12000
FVH (80°-90°)	181.5	1.1			G2/225
BL (0°-30°)	443.8	2.6	B1/500		
BM (30°-60°)	834.0	4.9	B1/1000		
BH (60°-80°)	409.1	2.4	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1859.7	1847.4	1827.9	1820.6	1801.0	1791.2	1776.6	1769.2	1742.4	1715.5	1698.4
5°	2086.9	2057.6	2067.4	2038.0	1974.5	1923.2	1920.7	1864.5	1803.4	1754.6	1688.6
7.5°	2316.6	2292.2	2255.5	2214.0	2143.1	2067.4	2045.4	1991.6	1906.1	1820.6	1732.6
10°	2490.1	2473.0	2441.3	2382.6	2284.9	2199.3	2201.8	2111.4	2020.9	1923.2	1803.4
12.5°	2597.6	2605.0	2558.5	2499.9	2414.4	2306.8	2304.4	2243.3	2140.7	2038.0	1896.3
15°	2705.2	2732.1	2661.2	2592.8	2482.8	2404.6	2419.3	2345.9	2245.8	2128.5	1972.1
17.5°	2722.3	2729.6	2714.9	2614.8	2534.1	2468.1	2470.6	2421.7	2345.9	2218.9	2084.5
20°	2693.0	2688.1	2671.0	2597.6	2543.9	2504.8	2507.2	2495.0	2453.5	2350.8	2167.6
22.5°	2607.4	2607.4	2585.4	2536.6	2512.1	2548.8	2519.4	2565.9	2521.9	2460.8	2309.3
25°	2539.0	2565.9	2553.7	2521.9	2531.7	2580.5	2595.2	2639.2	2631.9	2556.1	2407.0
27.5°	2612.3	2580.5	2587.9	2551.2	2587.9	2661.2	2668.8	2700.3	2697.8	2636.7	2495.0
30°	2661.2	2690.5	2634.3	2553.7	2592.8	2717.4	2712.5	2754.0	2773.6	2700.3	2578.1
32.5°	2817.6	2793.1	2746.7	2639.2	2644.1	2714.9	2736.9	2790.7	2802.9	2758.9	2658.7
35°	3137.7	3101.0	2898.2	2736.9	2712.5	2746.7	2761.4	2866.5	2888.4	2839.6	2744.3
37.5°	3631.3	3548.2	3303.9	2947.1	2837.1	2829.8	2829.8	2969.1	3052.2	2939.8	2871.3
40°	4337.6	4220.3	3956.3	3335.6	3000.9	3030.2	3059.5	3135.3	3125.5	3052.2	3037.5
42.5°	5236.8	5146.4	4860.5	3988.1	3313.7	3167.0	3142.6	3245.2	3399.2	3369.9	3360.1
45°	5987.1	5991.9	5808.7	4882.5	3853.7	3482.3	3499.4	3577.6	3836.6	3814.6	3812.2
47.5°	6534.4	6466.0	6439.1	5745.1	4640.6	4081.0	4056.5	4110.3	4447.5	4586.8	4650.4
50°	7033.0	6986.5	6923.0	6583.3	5586.3	4831.2	4806.7	4811.6	5327.3	5522.8	5679.1
52.5°	7651.2	7709.9	7499.7	7292.0	6810.6	5806.2	5779.3	5684.0	6324.3	6593.1	6778.8
55°	8413.6	8303.7	8066.6	8174.2	7981.1	6859.5	6810.6	6698.2	7460.6	7573.0	7768.5
57.5°	8582.3	8499.2	8743.5	9124.8	9310.5	8096.0	8076.4	7873.6	8416.1	8313.5	8865.7
60°	9002.6	9024.6	9364.2	10121.8	10444.4	9523.1	9427.8	9071.0	9342.2	9361.8	9950.7
62.5°	9435.1	9383.8	10143.8	10872.0	11368.1	10874.4	10842.7	10134.0	10441.9	10192.7	10972.2
65°	9117.4	9195.6	10283.1	11502.5	12565.5	12196.5	12169.6	11157.9	11326.5	11016.2	11387.6
67.5°	7988.4	7829.6	9352.0	11214.1	13181.3	13582.1	13552.7	12274.7	11825.0	11011.3	10525.0
70°	5855.1	5718.2	6959.6	9496.2	12299.1	14290.7	14408.0	13051.8	11622.2	9984.9	8120.4
72.5°	2868.9	2871.3	3900.1	6439.1	9730.8	13024.9	13083.5	11966.8	9984.9	7360.4	4599.0
75°	848.0	857.7	1444.2	3157.3	6290.1	9892.1	9958.1	9083.2	6920.5	3802.4	1568.9
77.5°	310.3	310.3	479.0	1185.2	3137.7	6243.6	6238.8	5576.5	3504.3	1287.8	366.6
80°	161.3	168.6	249.3	483.9	1358.7	3252.6	3374.7	2729.6	1331.8	542.5	107.5
82.5°	66.0	73.3	136.8	249.3	652.5	1141.2	1248.7	1070.3	579.2	378.8	48.9
85°	19.5	22.0	66.0	139.3	256.6	285.9	317.7	359.2	364.1	293.2	22.0
87.5°	2.4	2.4	26.9	46.4	56.2	61.1	70.9	70.9	185.7	205.3	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1678.8	1666.6	1647.1	1603.1	1593.3	1561.5	1559.1	1529.8	1539.5	1520.0	1512.6
5°	1666.6	1639.7	1586.0	1551.7	1517.5	1495.5	1480.9	1468.7	1466.2	1456.4	1451.6
7.5°	1688.6	1651.9	1568.9	1515.1	1456.4	1436.9	1405.1	1402.7	1385.6	1368.5	1368.5
10°	1761.9	1695.9	1605.5	1515.1	1439.3	1375.8	1302.5	1248.7	1229.2	1185.2	1190.1
12.5°	1820.6	1761.9	1629.9	1537.1	1422.2	1278.1	1116.8	992.1	933.5	877.3	899.3
15°	1903.6	1818.1	1676.4	1542.0	1356.3	1107.0	843.1	703.8	650.0	637.8	635.4
17.5°	1994.1	1903.6	1735.0	1529.8	1221.8	855.3	620.7	540.1	549.8	564.5	562.0
20°	2094.2	1984.3	1779.0	1488.2	1009.2	620.7	508.3	505.8	520.5	542.5	547.4
22.5°	2199.3	2104.0	1832.8	1363.6	752.7	498.5	488.7	488.7	498.5	525.4	520.5
25°	2316.6	2189.6	1859.7	1170.5	540.1	459.4	464.3	474.1	479.0	501.0	503.4
27.5°	2407.0	2284.9	1867.0	938.4	439.9	425.2	437.4	449.6	457.0	474.1	481.4
30°	2490.1	2404.6	1827.9	698.9	403.2	395.9	400.8	417.9	432.5	447.2	447.2
32.5°	2595.2	2473.0	1737.5	496.1	381.2	369.0	366.6	373.9	391.0	408.1	408.1
35°	2702.7	2587.9	1593.3	398.3	361.7	344.6	334.8	327.5	334.8	347.0	356.8
37.5°	2859.1	2761.4	1412.5	366.6	347.0	322.6	303.0	285.9	273.7	271.3	278.6
40°	3081.5	2956.9	1180.3	344.6	329.9	300.6	271.3	241.9	215.0	197.9	200.4
42.5°	3418.7	3245.2	928.6	332.3	317.7	276.1	234.6	193.1	158.8	141.7	141.7
45°	3900.1	3626.4	681.8	320.1	303.0	246.8	193.1	144.2	110.0	100.2	102.6
47.5°	4625.9	4085.9	488.7	300.6	283.5	215.0	151.5	102.6	80.6	75.8	78.2
50°	5574.1	4630.8	381.2	278.6	259.0	180.8	112.4	75.8	63.5	61.1	63.5
52.5°	6568.7	5180.6	334.8	259.0	222.4	144.2	83.1	61.1	53.8	51.3	53.8
55°	7419.1	5535.0	290.8	229.7	178.4	107.5	66.0	53.8	46.4	39.1	39.1
57.5°	8279.2	5713.4	229.7	190.6	132.0	80.6	56.2	46.4	39.1	31.8	29.3
60°	8978.1	5840.4	163.7	141.7	92.9	63.5	48.9	41.5	31.8	24.4	22.0
62.5°	9437.6	5476.3	119.7	107.5	68.4	53.8	41.5	34.2	24.4	17.1	17.1
65°	9210.3	4972.9	92.9	75.8	51.3	41.5	34.2	24.4	17.1	9.8	7.3
67.5°	8264.6	4051.6	75.8	56.2	39.1	31.8	26.9	19.5	9.8	2.4	2.4
70°	6165.4	2969.1	61.1	41.5	31.8	24.4	19.5	12.2	4.9	2.4	0.0
72.5°	3372.3	1625.1	48.9	34.2	24.4	19.5	14.7	9.8	4.9	0.0	0.0
75°	1114.3	432.5	36.7	24.4	14.7	12.2	9.8	7.3	2.4	0.0	0.0
77.5°	268.8	112.4	29.3	22.0	12.2	7.3	4.9	2.4	2.4	0.0	0.0
80°	83.1	46.4	22.0	14.7	9.8	7.3	2.4	0.0	0.0	0.0	0.0
82.5°	34.2	22.0	9.8	9.8	7.3	2.4	0.0	0.0	0.0	0.0	0.0
85°	17.1	12.2	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	4.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)